

11453500 Putah Creek near Guenoc, CA

Sacramento River Basin

LOCATION.--Lat 38°46'44", long 122°30'59" referenced to North American Datum of 1927, Lake County, CA, Hydrologic Unit 18020117, in Guenoc Land Grant, on right bank, just upstream from Coyote Valley dam site, 2.8 mi upstream from Soda Creek, and 3.2 mi downstream from Highway 29 bridge, at Guenoc.

DRAINAGE AREA.--113 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1904 to September 1906, July 1930 to September 1976, and April 1998 to current year. Monthly discharge only for some periods, published in WSP 1315-A.

CHEMICAL DATA: Water year 1978.

WATER TEMPERATURE: Water years 1960-1973.

SEDIMENT DATA: Water years 1962-1973.

REVISED RECORDS.--WSP 1285: 1937 (instantaneous maximum discharge), 1938, 1940, 1943 (instantaneous maximum discharge), 1951 (instantaneous maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 911.18 ft above NGVD of 1929. February 1904 to September 1906, nonrecording gage 0.2 mi upstream at different datum. July 1930 to September 1976, at datum 3.00 ft higher.

REMARKS.--Records good. Some regulation by Hartmann Dam on Coyote Creek since 1969, capacity, 3,000 acre-ft; diversions and ground-water withdrawals for domestic use and irrigation of about 1,600 acres above station. See schematic diagram of lower Sacramento River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s, Dec. 11, 1937, gage height, 22.7 ft, from rating curve extended above 13,000 ft³/s; no flow at times during 1964, 1970, 1974-76, 2007-09, 2013.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 2	1030	*16,700	*19.79
Dec 23	1615	12,500	17.72

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.5	0.16	2,240	263	78	46	43	18	8.1	0.92	1.3	2.5
2	1.6	0.13	6,940	234	76	46	41	18	6.2	0.45	0.91	0.01
3	1.7	0.10	1,280	212	74	45	39	17	5.0	0.41	0.02	0.00
4	1.6	0.03	619	194	73	45	47	17	4.4	0.71	0.00	0.04
5	1.5	0.01	929	188	71	44	104	17	4.5	0.00	0.00	0.20
6	1.3	0.05	563	263	70	146	74	19	4.3	0.24	0.00	0.35
7	1.1	0.06	380	200	71	114	59	20	3.4	0.84	0.77	0.45
8	1.1	0.08	289	179	71	83	54	20	2.3	0.77	0.84	0.28
9	1.1	0.10	233	166	67	71	49	21	1.9	0.71	0.14	0.00
10	1.1	0.10	199	156	66	63	44	20	2.8	0.44	0.15	0.04
11	1.3	0.11	176	145	64	58	40	19	3.4	0.11	0.29	0.81
12	1.3	0.13	161	138	62	55	38	17	2.5	0.05	2.0	0.35
13	1.1	0.15	146	131	61	53	36	15	2.0	0.30	2.0	0.00
14	1.1	0.21	134	125	60	50	34	13	2.6	0.13	1.8	0.05
15	0.99	0.27	128	119	59	49	32	12	2.0	0.35	2.9	0.56
16	0.43	0.35	139	115	58	47	30	12	1.8	0.21	0.52	0.60
17	0.29	0.60	337	110	57	45	29	11	0.96	0.48	0.24	0.51
18	0.32	63	242	107	56	45	27	10	1.1	0.54	0.13	0.05
19	0.33	15	185	103	56	44	27	9.4	1.2	0.86	0.15	0.39
20	0.32	311	163	99	57	47	26	9.0	1.2	0.61	0.20	0.60
21	0.28	592	3,280	96	54	51	25	8.5	0.99	0.65	0.11	0.71
22	0.49	118	2,920	93	53	48	23	9.4	1.0	0.49	0.15	0.13
23	0.28	71	5,160	95	51	45	22	11	0.94	0.55	0.08	0.19
24	0.25	52	2,030	116	50	43	21	11	1.1	0.53	0.00	0.43
25	0.18	42	1,220	103	49	42	21	11	1.4	0.36	0.88	2.4
26	0.15	36	1,230	97	49	41	20	12	2.2	0.30	2.5	1.8
27	0.16	32	729	92	48	40	20	12	1.8	0.26	1.1	2.4
28	0.13	140	546	88	47	39	19	12	2.0	0.68	0.06	2.3
29	0.12	320	437	85	---	39	19	9.2	1.5	1.4	0.19	2.0
30	0.13	4,770	357	82	---	39	18	9.6	0.99	1.7	0.41	2.3
31	0.13	---	301	80	---	39	---	8.8	---	1.6	3.6	---
Total	23.38	6,564.64	33,693	4,274	1,708	1,662	1,081	428.9	75.58	17.65	23.44	22.45
Mean	0.75	219	1,087	138	61.0	53.6	36.0	13.8	2.52	0.57	0.76	0.75
Max	1.7	4,770	6,940	263	78	146	104	21	8.1	1.7	3.6	2.5
Min	0.12	0.01	128	80	47	39	18	8.5	0.94	0.00	0.00	0.00
Ac-ft	46	13,020	66,830	8,480	3,390	3,300	2,140	851	150	35	46	45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.5	80.0	410	588	626	411	223	72.5	27.0	7.68	3.36	2.29
Max	329	1,005	1,684	2,288	2,107	1,326	1,060	285	165	36.8	12.0	10.0
(WY)	(1963)	(1974)	(1956)	(1970)	(1958)	(1938)	(2006)	(2005)	(1906)	(1998)	(1906)	(1905)
Min	0.00	1.35	2.34	15.2	36.7	53.6	26.6	9.48	1.57	0.10	0.00	0.00
(WY)	(2003)	(1932)	(1937)	(1976)	(1976)	(2013)	(1931)	(1976)	(1976)	(2007)	(1976)	(1976)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1905 - 2013	
Annual total	77,540.86		49,574.04			
Annual mean	212		136		203	
Highest annual mean					467	1938
Lowest annual mean					21.8	1976
Highest daily mean	6,940	Dec 2	6,940	Dec 2	16,500	Dec 10, 1937
Lowest daily mean	0.00	Sep 15	0.00	Jul 5	0.00	Aug 20, 1964
Annual seven-day minimum	0.02	Sep 11	0.06	Nov 3	0.00	Jul 26, 1976
Maximum peak flow			16,700	Dec 2	32,000	Dec 11, 1937
Maximum peak stage			19.79	Dec 2	22.70	Dec 11, 1937
Annual runoff (ac-ft)	153,800		98,330		147,100	
10 percent exceeds	425		177		451	
50 percent exceeds	19		12		24	
90 percent exceeds	0.29		0.13		1.1	

